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April 11, 2006

4870.00

Humboldt County Department of Health and Human Services
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

Attention: Mr. Mark Verhey, C.E.G.

Subject: Fourth Quarter 2005 and First Quarter 2006 Groundwater Monitoring Report, and Request for Closure; Dibble's Campton Heights Service Station 1500 Ronald Avenue, Fortuna, California; LOP No. 12729

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents to the Humboldt County Department of Health and Human Services (HCDEH) the results of groundwater monitoring for the fourth quarter of 2005 and the first quarter of 2006, and a request for closure. This report has been prepared for Mr. Ronald Kendall. The elements included are:

- Introduction, site chronology, and site history;
- Hydraulic gradient and hydrogeology;
- Tabular summary of analytical data;
- Discussion of quarterly analytical results;
- Request for closure, conclusions, and recommendations; and
- Location map, site map, and hydraulic gradient and/or head maps.

Please call (707) 443-5054 if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

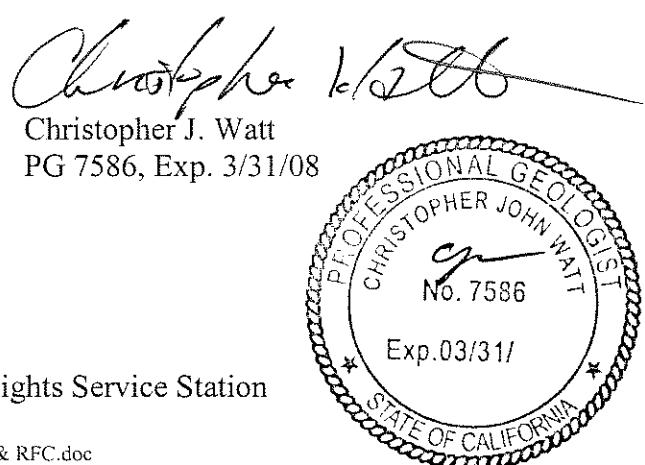
Caroline Levenda
Staff Geologist

CJL:jg

Attachments

cc: Mr. Ronald Kendall, Dibble's Campton Heights Service Station

P:\4800\4870 Ron Kendall\SUBMITTALS\GMR\2006\Q05, 1Q06 GMR & RFC.doc



**FOURTH QUARTER 2005 AND FIRST QUARTER 2006
GROUNDWATER MONITORING REPORT, AND
REQUEST FOR CLOSURE**

Dibble's Campton Heights Service Station
1500 Ronald Avenue, Fortuna, California
LIC No. 12729; LACO Project No. 4870.00

INTRODUCTION

Field activities were conducted on December 23, 2005, January 26, 2006, February 23, 2006, and March 7, 2006, in accordance with generally accepted practices at this or similar locations. Monthly sampling at monitoring well MW1 was conducted during the first quarter of 2006 in pursuit of site closure. Please refer below to Tables A through D for the current groundwater monitoring regime and to the updated Standard Operating Procedures, on file at your office, for sampling details. A location and site map are provided as Figures 1 and 2, respectively. A key to abbreviations is included as Attachment 1.

Table A: Monitoring Well Sampling Parameters for December 23, 2005

Table A: Monitoring Well Sampling Parameters for December 23, 2005							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW1	5-15	12.88	3/4"Bailer	NA	TPHg, TPHd, TPHmo, BTEX, MTBE, TBA, DIPE, ETBE, TAME	NA	Monthly
MW2	5-15	13.05			Quarterly		
MW3	5-15	12.75					

Table B: Monitoring Well Sampling Parameters for January 26, 2006

Table B: Monitoring Well Sampling Parameters for January 26, 2006							
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW1	5-15	10.72	DHP	NA	TPHg, TPHd, TPHmo, BTEX, MTBE, TBA, DIPE, ETBE, TAME	NA	Monthly
MW2	5-15	NA	NA		NA		
MW3	5-15			Quarterly			

Table C: Monitoring Well Sampling Parameters for February 23, 2006

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW1	5-15	13.92	3/4" B	NA	TPHg, BTEX, MTBE, TBA, DIPE, ETBE, TAME	NA	Quarterly
MW2	5-15	12.92	NA		NA		
MW3	5-15	13.62					

Table D: Monitoring Well Sampling Parameters for March 7, 2006

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW1	5-15	10.25	DHP	Temp, ORP, DO, Ecw	TPHg, BTEX, MTBE, TBA, DIPE, ETBE, TAME	NA	Monthly
MW2	5-15	9.61			Quarterly		
MW3	5-15	9.50					

SITE CHRONOLOGY

- **December 29, 1999:** One 250-gallon, single-walled steel waste oil underground storage tank (UST) and two 3,000-gallon, single-walled steel USTs were removed from the site.
- **2000:** Seven temporary soil borings were installed.
- **2001:** *Additional Subsurface Investigation Workplan* was submitted and five temporary soil borings were installed.
- **2003:** Temporary soil borings B8 through B11 were installed.
- **2004:** Three monitoring wells were installed onsite.
- **2004 through present:** Groundwater monitoring was conducted onsite.
- **2005:** *Subsurface Investigation Status Report* was submitted to the HCDEH.

SITE HISTORY SUMMARY

The USTs removed in December 1999 were operated for approximately 45 years and were last operated in 1991. According to field notes obtained at the HCDEH, no groundwater was pumped from the tank cavity and excavated soils were used to backfill the cavities. The three USTs were single-walled steel, and only the waste oil UST was observed to have been compromised. Laboratory analytical results from samples collected during boring installation in March 2003 identified sorbed- and dissolved-phase total petroleum hydrocarbons as motor oil (TPHmo) in

the southwest portion of the subject property and total petroleum hydrocarbons as gasoline (TPHg) north of the former UST cavity.

HYDRAULIC GRADIENT AND HYDROGEOLOGY

The site comprises a shallow aquifer with sandy silts, clayey silty sands, and gravels. Sandy, gravelly silts comprise the deeper, saturated zone on-site. Silts and clays comprise the shallower subsurface geology on-site. Groundwater flows in a northerly direction. Potentiometric surface contours for the site were generated using Surfer 7.0 software and the hydraulic head elevations were calculated for each monitoring event.

Hydraulic Gradients

- The hydraulic gradient for the December 23, 2005, monitoring event, using monitoring wells MW1, MW2, MW3, and the three-point method, was determined to have a N36°W trend with a 0.01 foot per foot slope.
- The hydraulic gradient for the February 23, 2006, monitoring event, using monitoring wells MW1, MW2, MW3, and the three-point method, was determined to have a N36°E trend with a 0.02 foot per foot slope.
- The hydraulic gradient for the March 7, 2006, monitoring event, using monitoring wells MW1, MW2, MW3, and the three-point method, was determined to have a N7°W trend with a 0.02 foot per foot slope.

The hydraulic gradients and potentiometric surfaces and for the December, February and March monitoring events are presented as Figures 3, 5, and 6, respectively. Figure 4 presents the hydraulic head of the January 26, 2006, monitoring event. The hydraulic gradients for the December 23, 2005, February 23, 2006, and March 7, 2006, monitoring events are consistent with historic hydraulic gradient data. Historic hydraulic gradient data are presented in Table 1, and copies of the field sampling data sheets are included as Attachment 2.

LABORATORY RESULTS

Laboratory analytical results from the December 23, 2005, January 6, 2006, February 23, 2006, and March 7, 2006, are included as Table 2, and copies of the laboratory analytical reports are included as Attachment 3. Results from sampling events are included below in Tables E through H.

Table E: Laboratory Analytical Results for December 23, 2005

WELL	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW1	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	TAME = 1.5 ND<1.0 - 10
MW2	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10
MW3	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10

Table F: Laboratory Analytical Results for January 26, 2006

WELL	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW1	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10

Table G: Laboratory Analytical Results for February 23, 2006

WELL	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW1	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10

Table H: Laboratory Analytical Results for March 7, 2006

WELL	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Total Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW1	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	ND<1.0 - 10
MW2	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10
MW3	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0 - 10

DISCUSSION OF QUARTERLY ANALYTICAL RESULTS

Groundwater samples collected from monitoring wells MW2 and MW3 have been non-detect (ND) and/or below the California Regional Water Quality Control Board's (CRWQCB's) water quality objective (WQO) for TPHg; total petroleum hydrocarbons as diesel (TPHd); TPHmo; benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tertiary butyl ether (MTBE); and other fuel oxygenates since sampling was initiated in March 2004. Groundwater samples were collected monthly at monitoring well MW1. TPHg, TPHd, TPHmo, and BTEX were reported as non-detect since the June 2005 sampling event at monitoring well MW1. MTBE concentrations have decreased two orders of magnitude to below the CRWQCB WQO of 13 $\mu\text{g/L}$ since the March sampling event of 2005 to present (Chart 1).

REQUEST FOR CLOSURE

Per HCDEH correspondence in a letter dated November 5, 2005, monitoring well MW1 was sampled monthly since December 2005. The concentrations of MTBE at monitoring well MW1

were ND for the December 2005 through February 2006 monthly sampling events, and below the WQO of 13 µg/L for the March sampling event. LACO's report entitled *Groundwater Monitoring Report: First, Second, and Third Quarters of 2005 and Request for Closure*, submitted on October 26, 2005, includes estimates required for site closure, decay rate analyses and migration and bulk attenuation rates, evaluation of vertical and horizontal extents evaluated, and mass calculations. Elements requested for closure have been met and are included below.

Request for Closure Checklist

The following checklist addresses the delineation, monitoring, and remediation of site soils and groundwater impacted by the historical release of petroleum hydrocarbons at the subject site. This checklist was adapted from a draft of the HCDEH request for closure guidelines.

REQUEST FOR CLOSURE CHECKLIST		
Subject	Item Completed	Reference
1: Provide a history or overview of what has been done at the site to date.	yes	This report, Site Chronology and Site History Summary Section
2: Confirm source destruction has occurred to the extent practicable.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure</i> , Decay rate, Attenuation and Mass Calculations Sections
3: Delineate remaining soil impact.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure</i> , Migration and Bulk Attenuation-Horizontal and Vertical Extent Sections
4: Delineate groundwater impact.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure</i> , Fate and Transport of MTBE section
5: Comment on concentration trends observed in monitoring wells.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure</i> , Decay Rates, Migration and Bulk Attenuation Analyses, Fate and Transport of MTBE, Mass Calculations
6: Comment on the suitability of monitoring well screen intervals with respect to site conditions.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure</i> , Migration and bulk attenuation analyses -Vertical Extent Section

REQUEST FOR CLOSURE CHECKLIST, CONTINUED		
Subject	Item Completed	Reference
7: Estimate the amount of time to reach water quality objectives.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure , Decay Rates Section</i>
8: Comment on whether or not the location of monitoring wells is sufficient to evaluate the potential for groundwater impact in each measured groundwater direction.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure , Migration and bulk attenuation analyses - Horizontal Extent Section</i>
9: Description of soil and groundwater conditions.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure , Decay Rates, Migration and Bulk Attenuation Analyses, Fate and Transport of MTBE, Mass Calculations</i>
10: Demonstrate how natural attenuation applies to the site.	yes	<i>Groundwater Monitoring Report; First, Second and Third Quarters 2005 and Request for Closure , Migration and Bulk Attenuation Analyses Section</i>

CONCLUSIONS

Delineation of vertical and horizontal extents of sorbed- and dissolved-phase impacts are defined and complete. The WQOs for TPHg, benzene, and MTBE appear to be met by natural attenuation in a reasonable amount of time. Based on monthly sampling during the months of December 2005 through March 2006 at monitoring well MW1, MTBE concentrations are below the WQO of 13 µg/L and meet the requirements for closure. A contingency plan will be developed for the former waste oil area for sorbed-phase TPHd and TPHmo.

RECOMMENDATIONS

Based on the conclusions presented above, LACO recommends site closure. LACO will continue with quarterly groundwater monitoring, with the next sampling event scheduled for May 2006, until HCDEH correspondence is received. LACO proposes a contingency plan to identify if any human health hazards exist in the surface layers (0.5 to 1.0 foot) of soil near the waste oil tank area on the southwest corner of the site in the vicinity of boring B8.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability

for any errors, omissions, or inaccuracies in the information and data presented in this report and/or any consequences arising there from, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind, including, but not limited to, any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented and that data generated for this report represents information gathered at that time and at the indicated locations. It should not be utilized by any third party to represent data for any other time or location. This report is valid solely for the purpose, site, and project described in this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Hydraulic Gradient Map (12/23/05)

Figure 4: Hydraulic Head Map (1/26/06)

Figure 5: Hydraulic Gradient Map (2/23/06)

Figure 6: Hydraulic Gradient Map (3/07/06)

Table 1: Historic Hydraulic Gradient Data

Table 2: Historical Groundwater Monitoring Results

Chart 1: MTBE Concentrations at Monitoring Well MW1

Attachment 1: Key to Abbreviations

Attachment 2: Groundwater Sampling Field Data Sheets

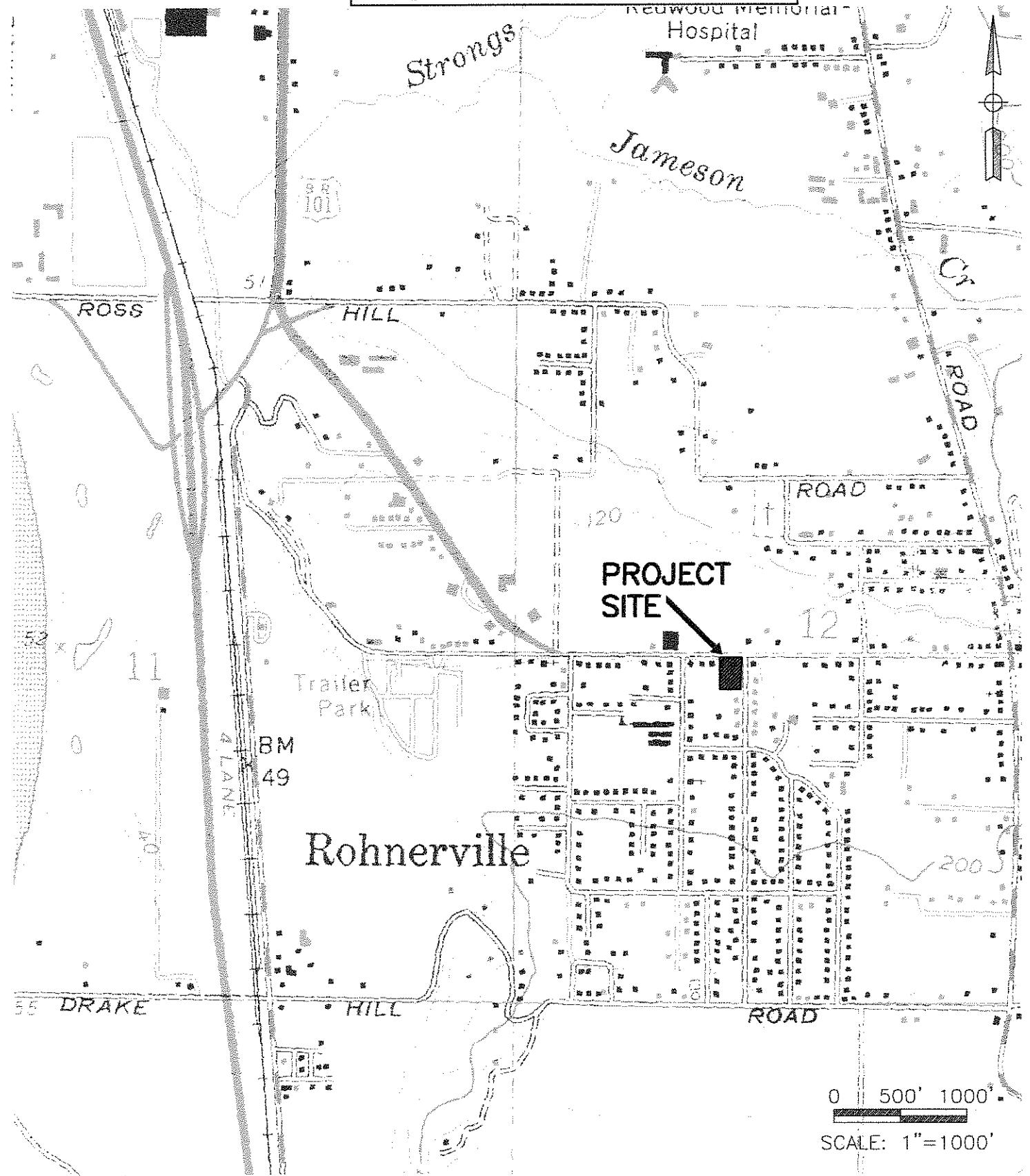
Attachment 3: Laboratory Analytical Reports



LACO ASSOCIATES
CONSULTING ENGINEERS

21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
& REQUEST FOR CLOSURE		DATE	3/29/06	1
CLIENT	RON KENDALL	CHECK	cc	JOB NO.
LOCATION	1500 RONALD AVENUE, FORTUNA	SCALE	1"=1000'	4870.00
LOCATION MAP				





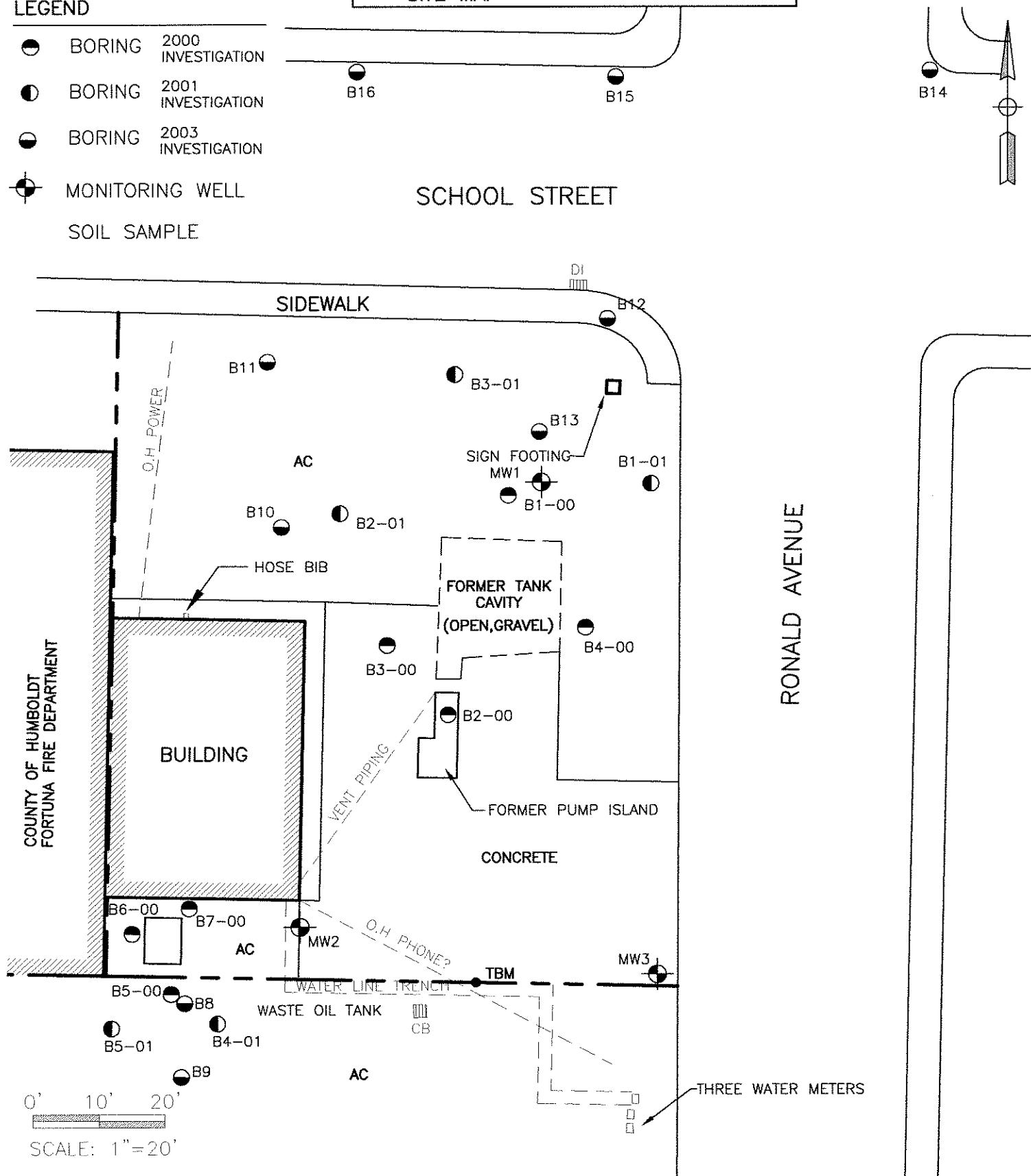
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CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
& REQUEST FOR CLOSURE		DATE	3/29/06	2
CLIENT	RON KENDALL	CHECK	<i>m</i>	JOB NO.
LOCATION	1500 RONALD AVENUE, FORTUNA	SCALE	1=20'	4870.00

LEGEND

- BORING 2000 INVESTIGATION
- BORING 2001 INVESTIGATION
- BORING 2003 INVESTIGATION
- MONITORING WELL
- SOIL SAMPLE

SITE MAP





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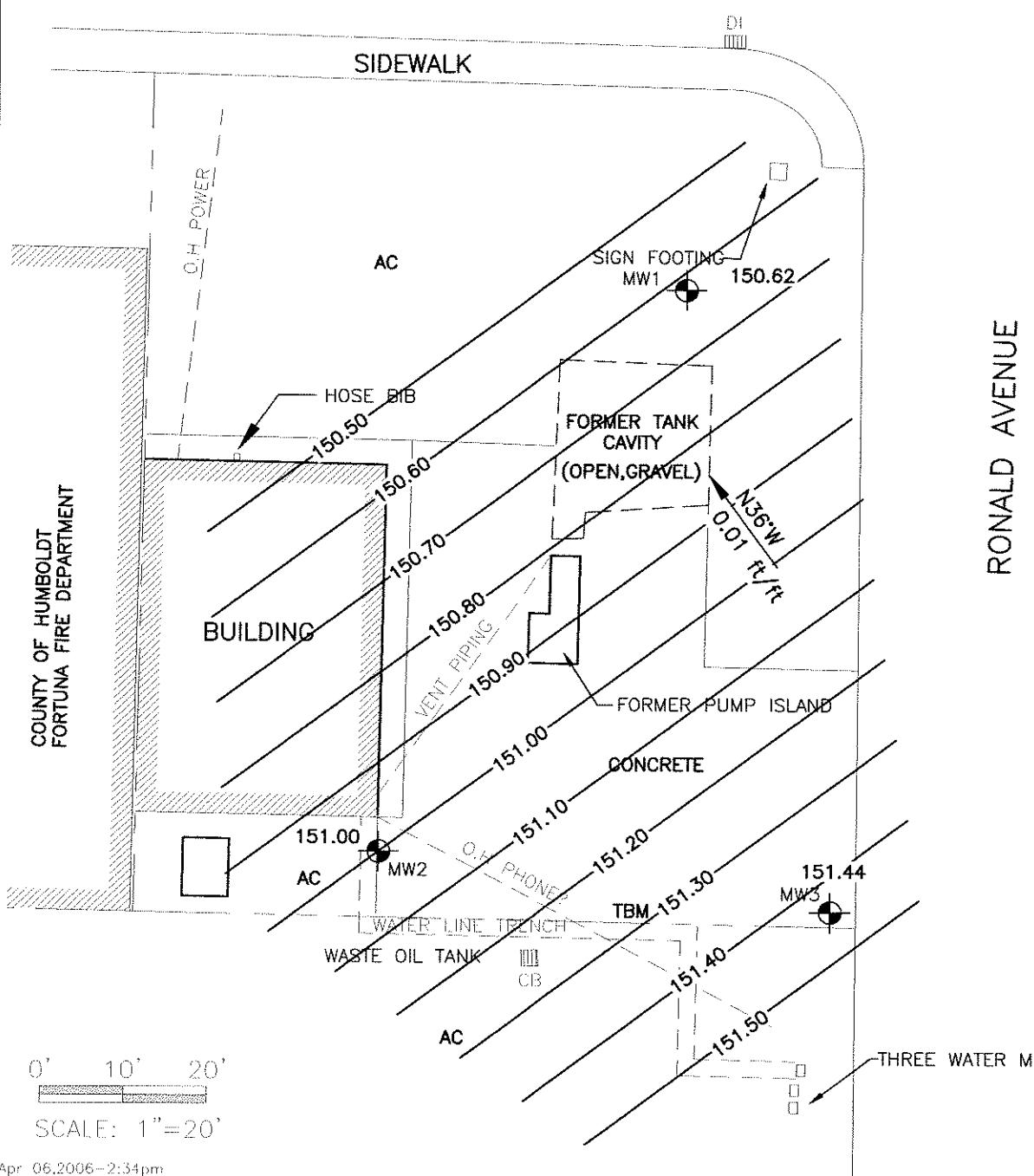
PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
& REQUEST FOR CLOSURE		DATE	4/06/06	3
CLIENT	RON KENDALL	CHECK	<i>a</i>	JOB NO.
LOCATION	1500 RONALD AVENUE, FORTUNA	SCALE	1=20'	4870.00
	HYDRAULIC GRADIENT MAP (12/23/05)			

LEGEND

- MONITORING WELL
- 151.20- EQUIPOTENTIAL LINES (Feet, NAVD88)

HYDRAULIC GRADIENT

SCHOOL STREET





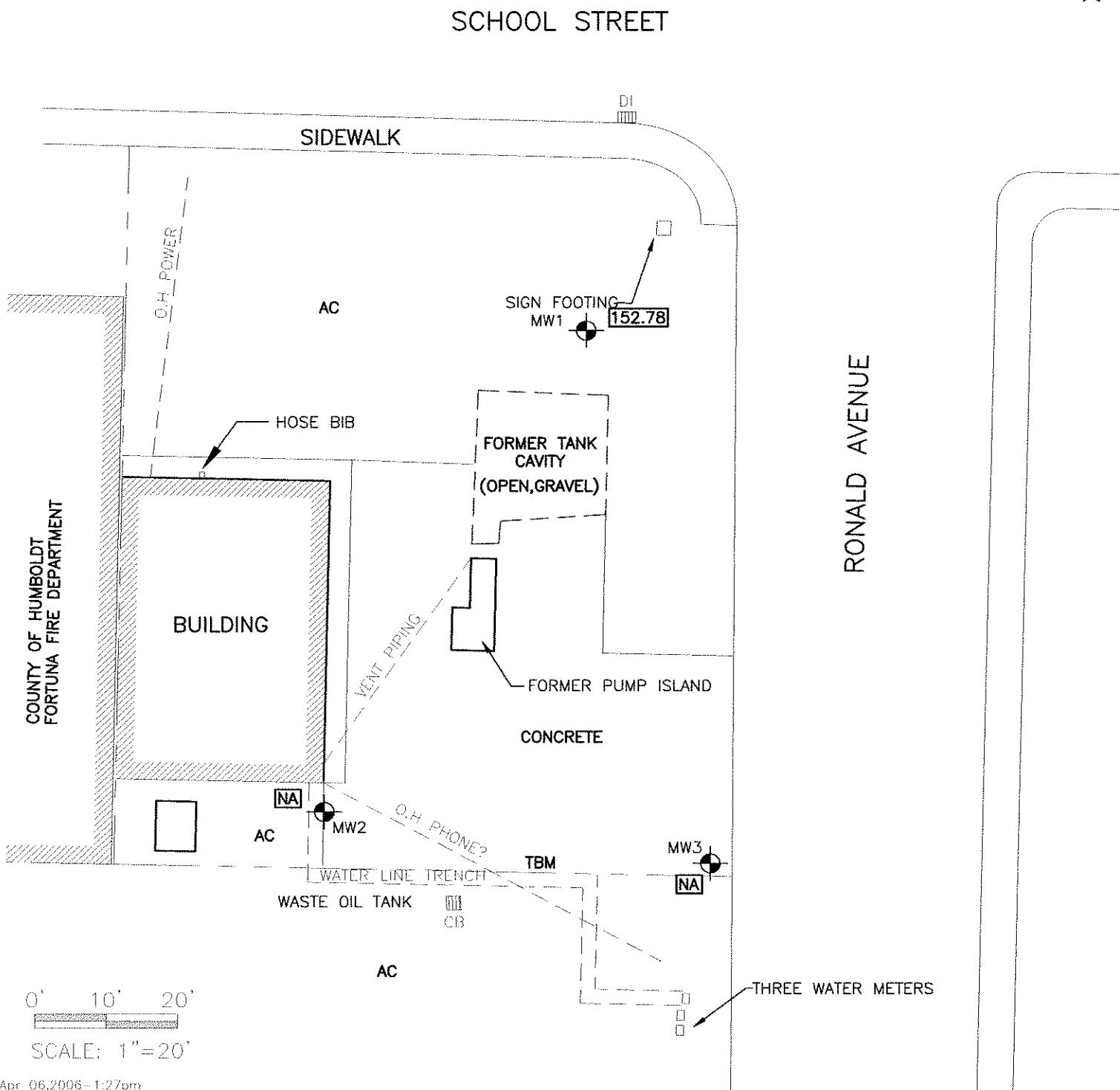
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21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
	& REQUEST FOR CLOSURE	DATE	4/06/06	4
CLIENT	RON KENDALL	CHECK	<i>cc</i>	JOB NO.
LOCATION	1500 RONALD AVENUE, FORTUNA	SCALE	1=20'	4870.00

LEGEND

MONITORING WELL

HYDRAULIC HEAD





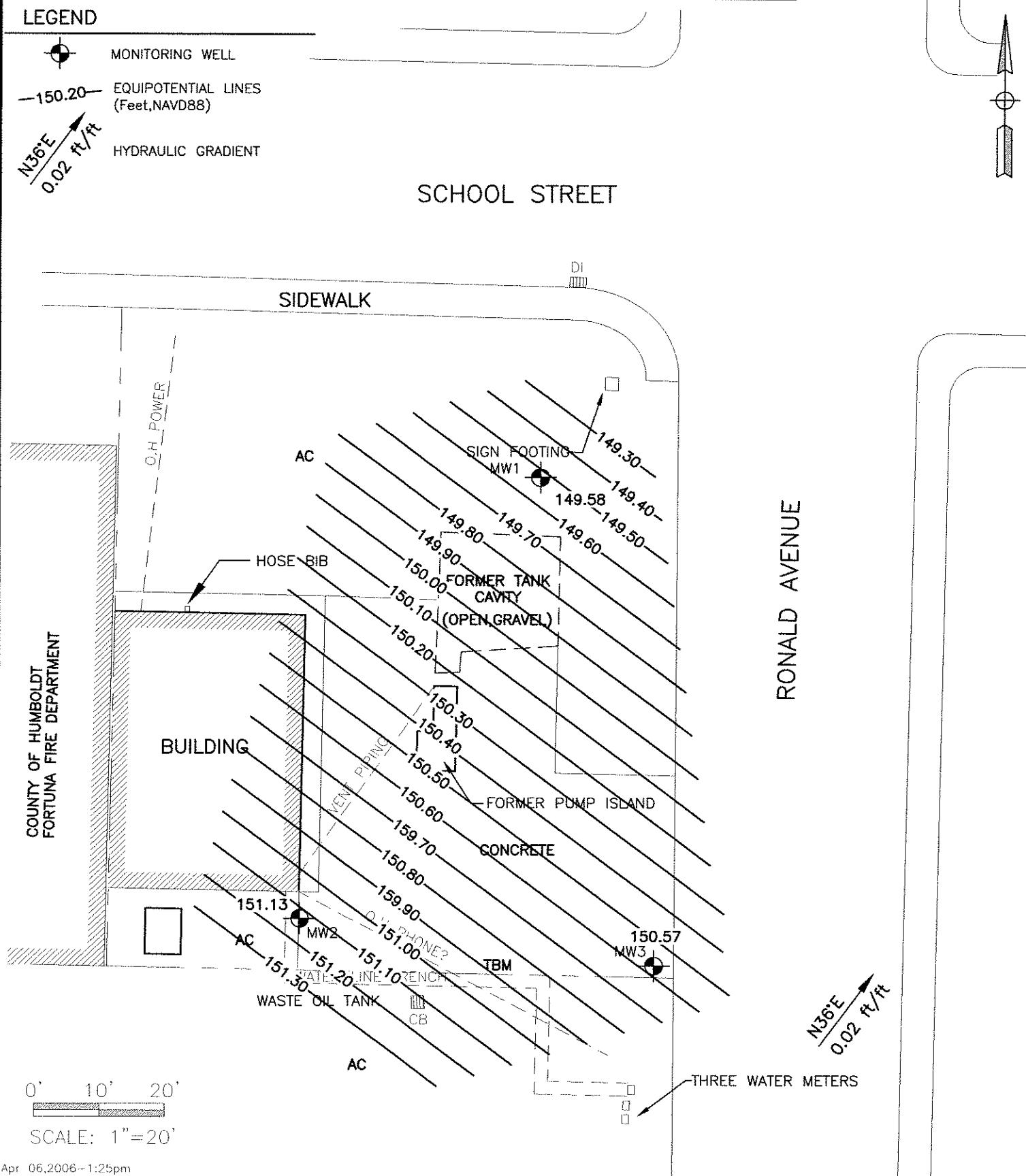
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PROJECT	GROUNDWATER MONITORING REPORT & REQUEST FOR CLOSURE
CLIENT	RON KENDALL
LOCATION	1500 RONALD AVENUE, FORTUNA HYDRAULIC GRADIENT MAP (2/23/06)

BY	RJM	FIGURE
DATE	4/06/06	5
CHECK	<i>dc</i>	JOB NO.
SCALE	1=20'	4870.00

LEGEND



3 06 2006 1:25pm

T:\CAEFILES\4800\4870 Ron Kendall\dwg\4870-ENV-CMR-1Q-06\ 4870-ENV-CMR-30-05-SITE.dwg



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CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
& REQUEST FOR CLOSURE		DATE	3/30/06	6
CLIENT	RON KENDALL	CHECK	<i>ac</i>	JOB NO.
LOCATION	1500 RONALD AVENUE, FORTUNA	SCALE	1=20'	4870.00

HYDRAULIC GRADIENT MAP (3/07/06)

LEGEND

MONITORING WELL

-150.20 EQUIPOTENTIAL LINES
(Feet, NAVD88)

HYDRAULIC GRADIENT
 0.02 ft/ft

SCHOOL STREET

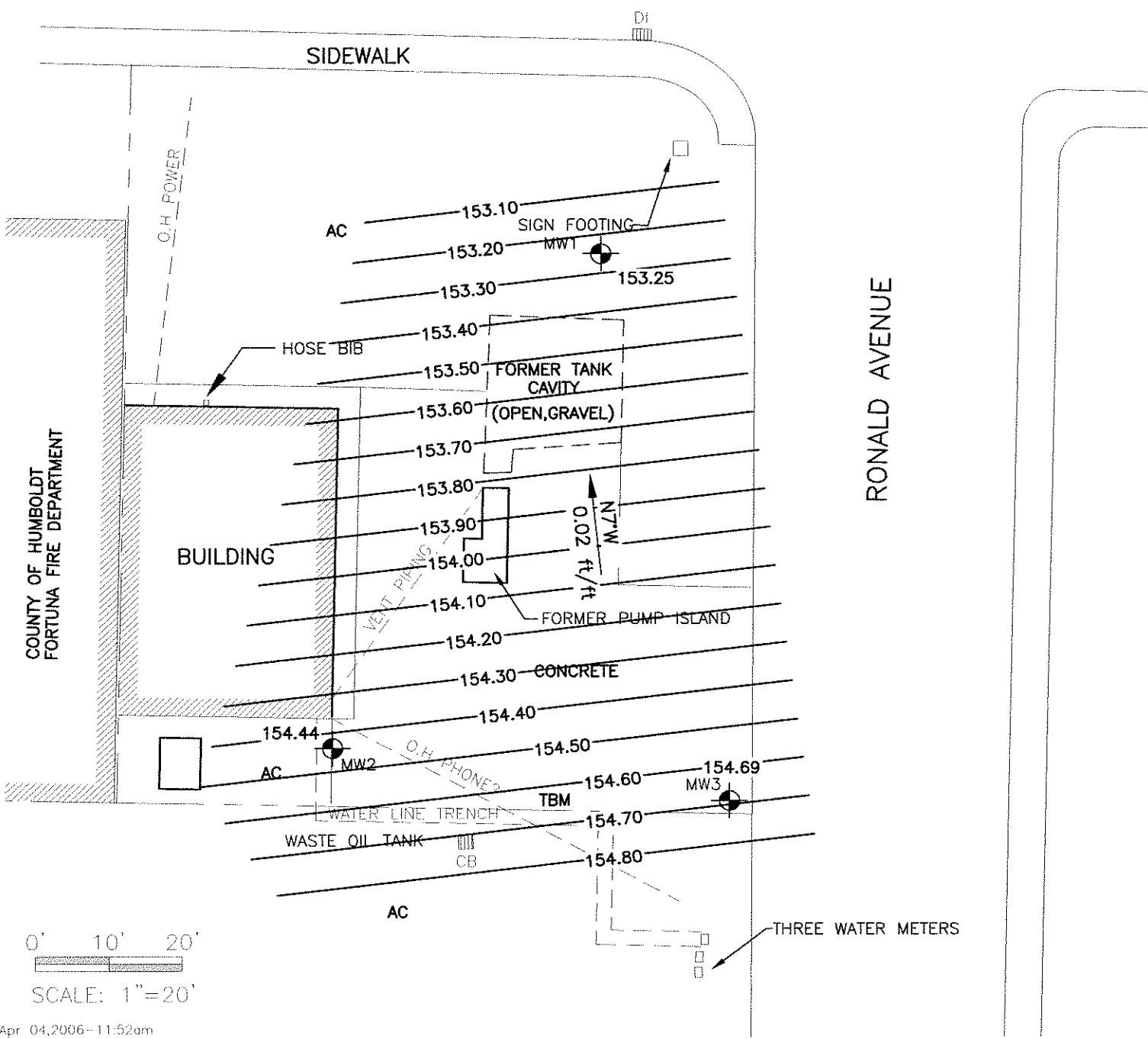


Table 1. Historic Hydraulic Gradient Data

Dibble's Campton Heights Service Station, 1500 Ronald Avenue, Fortuna, CA
LACO Project No. 4870.00; LOP No. 12729

Groundwater Gradient

Date	Direction	Gradient
		Slope (foot/foot)
3/4/2004	N80°E	0.01
4/7/2004	N30°W	0.01
5/6/2004	N28°W	0.02
3/22/2005	N12°E	0.01
6/28/2005	N43°W	0.04
9/15/2005	NA	NA
12/23/2005	N36°W	0.01
1/26/2006	NA	NA
2/23/2006	N36°E	0.02
3/7/2006	N7°W	0.02

Table 2: Historical Groundwater Monitoring Results
 Dibble's Campton Heights Service Stations, 1500 Ronald Avenue, Fortuna CA
 LACO Project No. 4870.00; LOP No. 12729

Well (Screened Interval)/ Date	Hydraulic Head (NAVD88)	Top of Casing (NAVD88)	Depth-to- Water (feet bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Fuel Oxygenates (µg/L)
MW1 (5-15 feet bgs)		163.50									
3/4/2004	152.33		11.17	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0-10.0
4/7/2004	149.54		13.96	---	---	---	---	---	---	---	---
5/6/2004	148.96		14.54	---	---	---	---	---	---	---	---
6/11/2004	---		Dry								Sample not collected due to dry well
7/12/2004	---		Dry	---	---	---	---	---	---	---	---
8/10/2004	---		Dry	---	---	---	---	---	---	---	---
12/13/2004	---										Well not accessible
12/20/2004	149.28		14.22	350	ND<50	ND<170	2.1	1.8	ND<0.50	70	ND<1.0-10.0
3/22/2005	149.92		13.58	340	ND<50	ND<170	0.87	0.56	ND<0.50	7.5	MTBE = 340; TAME = 140; Other analytes
											NA < 1.0-10
6/28/2005	149.08		14.42	ND<50	NA	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	MTBE = 40, TAME = 14;
											Other Analytes = ND < 1.0-10
9/15/2005	---		Dry	---	---	---	---	---	---	---	---
12/23/2005	150.62		12.88	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	MTBE = 4.5; TAME - 1.5;
											ND < 1.0-10
1/26/2006	152.78		10.72	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
2/23/2006	149.58		13.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
3/7/2006	153.25		10.25	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	MTBE = 1.5; ND < 1.0-10
MW2 (5-15 feet bgs)		164.05									
3/4/2004	153.80		10.25	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10.0
4/7/2004	150.08		13.97	---	---	---	---	---	---	---	---
5/6/2004	149.84		14.21	---	---	---	---	---	---	---	---
6/11/2004	149.35		14.70								Sample not collected due to presence of mud
7/12/2004	---		Dry	---	---	---	---	---	---	---	---
8/10/2004	---		Dry	---	---	---	---	---	---	---	---
12/13/2004	150.40		13.65	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-240
3/22/2005	150.87		13.18	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
6/28/2005	149.91		14.14	ND<50	NA	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
9/15/2005	---		Dry	---	---	---	---	---	---	---	---
12/23/2005	151.00		13.05	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
1/26/2006	---		---	---	---	---	---	---	---	---	---
2/23/2006	151.13		12.92	---	---	---	---	---	---	---	---
3/7/2006	154.44		9.61	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
MW3 (5-15 feet bgs)		164.19									
3/4/2004	152.92		11.27	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10.0
4/7/2004	150.55		13.64	---	---	---	---	---	---	---	---
5/6/2004	150.54		13.65	---	---	---	---	---	---	---	---
6/11/2004	150.54		13.65	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10.0
7/12/2004	150.23		13.96	---	---	---	---	---	---	---	---
8/10/2004	150.20		13.99	---	---	---	---	---	---	---	---
12/13/2004	150.45		13.74	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-45
3/22/2005	150.83		13.36	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	0.50	ND < 1.0-10
6/28/2005	151.46		12.73	ND<50	NA	NA	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
9/15/2005	150.01		14.18	---	---	---	---	---	---	---	---
12/23/2005	151.44		12.75	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10
1/26/2006	---		---	---	---	---	---	---	---	---	---
2/23/2006	150.57		13.62	---	---	---	---	---	---	---	---
3/7/2006	154.69		9.50	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND < 1.0-10

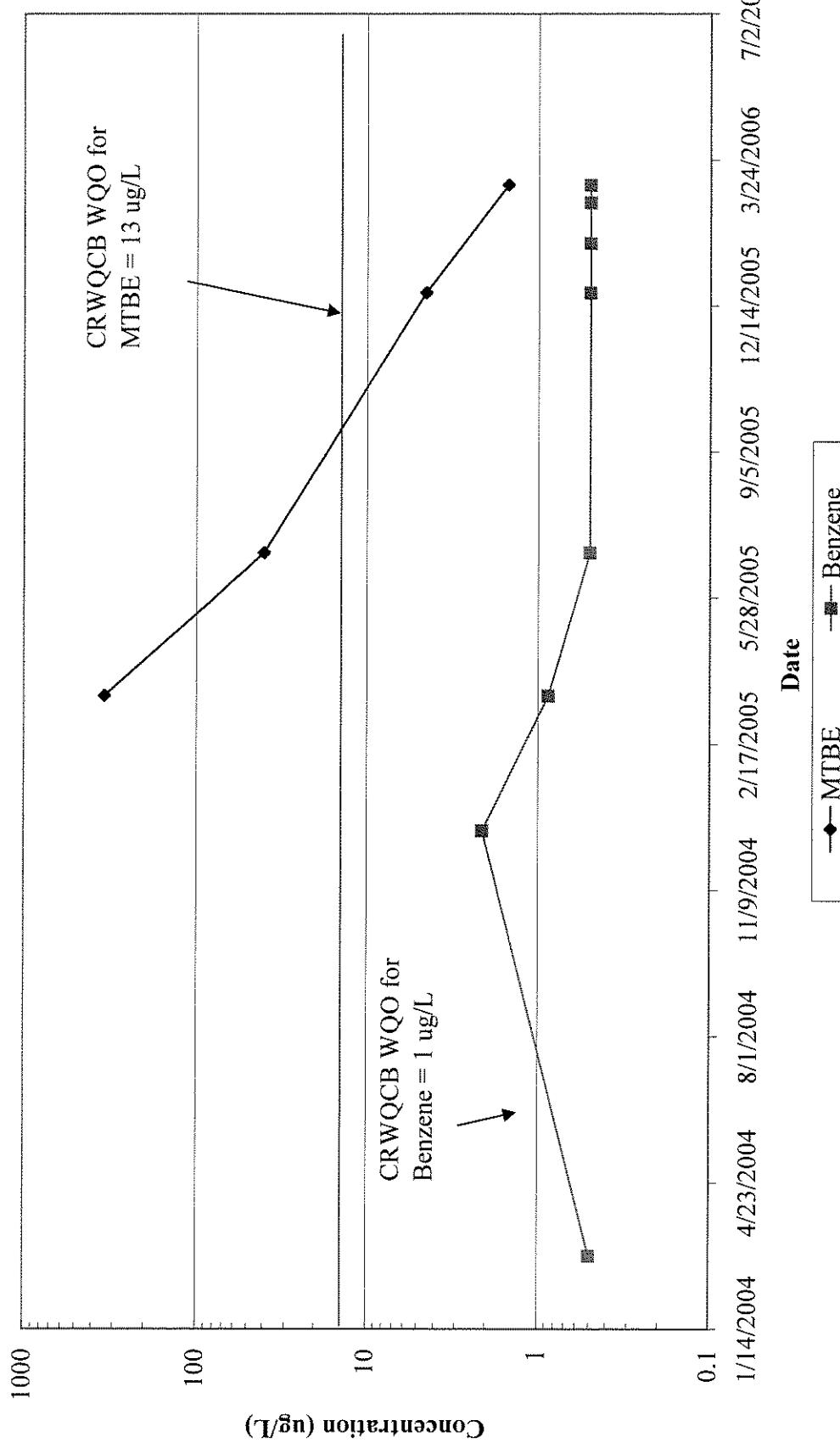
Notes:

Fuel Oxygenates include MTBE, TAME, DIPE, TBA, ETBE

Bold indicates analyte detection

Chart 1. MTBE Concentrations at Monitoring Well MW1

Dibble's Campion Heights Service Station, 1500 Ronald Avenue, Fortuna, CA
LACO Project No. 4870.00; LOP No. 12729

MTBE and Benzene Concentrations in Groundwater at Monitoring Well MW1

Attachment 1

Key to Abbreviations

Dibble's Campton Heights Service Station, 1500 Ronald Avenue, Fortuna, CA

LACO Project No. 4870.00; LOP No. 12729

KEY TO ABBREVIATIONS	
Alk	-- Alkalinity
BTEX	-- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CO ₂	-- Carbon dioxide
COC	-- Chain of custody
Cr	-- Chromium
DHP	-- Down-hole-pump (submersible pump)
DIPE	-- Di-isopropyl Ether
Dis	-- Dissolved
DO	-- Dissolved Oxygen
DTW	-- Depth-to-Water
ECw	-- Electrical Conductivity in water
ETBE	-- Ethyl Tertiary Butyl Ether
Fe	-- Iron
FP	-- Free Product
LNAPL	-- Light Non-Aqueous Phase Liquid
Mn	-- Manganese
MTBE	-- Methyl Tertiary Butyl Ether
N	-- Nitrogen
NA	-- Not Applicable
ND<50	-- non-detect at reporting limits shown
NO ₃	-- Nitrate
NOT ACTIVE	-- Sample not analyzed for parameter during current sampling event
ORP	-- Oxidation Reduction Potential
P	-- Phosphorous
PCP/TCP	-- penta- tetra- tri- chlorophenols
pH	-- Potential of hydrogen
SGC	-- Silica gel cleanup
SO ₄	-- Sulfate
T	-- Temperature
T&P	-- Tape and Paste
TAME	-- Tertiary Amyl Methyl Ether
TBA	-- Tertiary Butyl Alcohol
TBF	-- Tertiary Butyl Formate
TIC	-- Total Inorganic Carbon
TOC	-- Total Organic Carbon
Tot	-- Total
TPHd	-- Total Petroleum Hydrocarbons as Diesel
TPHg	-- Total Petroleum Hydrocarbons as Gasoline
TPHk	-- Total Petroleum Hydrocarbons as Kerosene
TPHmo	-- Total Petroleum Hydrocarbons as Motor Oil
TPHs	-- Total Petroleum Hydrocarbons as Solvent
µg/L	-- Micro grams per liter (parts per billion)

Note: Not all abbreviations in this key are used in the report.

Attachment 2



Project

Name: Dibbles

Project No.: 4870.00

Date: 12.12.31.05

Global ID No.: T0602300517

PM: GLM

Tech: SJD/RUD

Mob/Demob time: 25/.50

Travel time: 1:0

Time on site: 10:50

Time off site: 1:00

Mileage: 39

	MW1	MW2	MW3						
WELL No.:									
DIAMETER (in)	2.00	2.00	2.00						
SCREENED INTERVAL (ft)	5-15	5-15	5-15						
DEPTH TO WATER (ft)	12.85	13.05	12.75						
FIELD INTRINSICS	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL
	pH								
	TEMP (°C)								
	Ecw (μmhos)								
	ORP (mV)								
PURGE	DO (mg/L)								
	OTHER (units)								
	TIME	11:50	12:00	12:10	12:15	12:25	12:30		
	METHOD (DHP/CB/B)	3/4" B		3/4" B		3/4" B			
	RATE (Lpm)								
	VOLUME (L)								
SAMPLE	COLOR	TAN TINT	TAN TURBID	CLEAR	TAN TINT	TAN TINT	TAN TINT		
	ODOR	NONE		NONE					
	INTAKE DEPTH (FEET)								
	TIME	12:03		12:17		12:32			
	METHOD (DHP/CB/B)	3/4" B		3/4" B		3/4" B			
	ANALYTES	8260 List 1; TPHd/mo w/SGC		8260 List 1; TPHd/mo w/SGC		8260 List 1; TPHd/mo w/SGC			
WELL CONDITION	TOTAL DRAWDOWN (FEET)								
	REMARKS	NOT ENOUGH TO DO INTRINSICS		NOT ENOUGH TO DO INTRINSICS		NOT ENOUGH TO DO INTRINSICS			
WASTE DRUMS	4 - LABELED DOT DRUMS ON SITE 3 - SOIL 1 - SOIL & TRASH 0 - PURGE/H2O								

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

DIBBLES

Tech: ZED

Date: 17.12.05

Project No.: 4870.00

ZANZI SITE INVESTIGATION;
SUMMARY OF WORK PERFORMED

TO: LACO ASSOCIATES
FROM: BRIAN HODGSON
SUBJECT: SUMMARY OF WORK PERFORMED
DATE: 2/6/06

11:40: BRH, CJW, Dennis Lake, JLS, and Ken Zanzi on-site. Meet with Mark from Eureka Ready Mix (ERM) to discuss entry location from ERM property to Zanzi property. Discuss boring locations with Ken Zanzi.

11:45: Discuss site safety plan and hold health and safety meeting.

12:00: Install B1 to depth of 8 feet (ft). Log Soil. PID at 4.0 ft (0 ppm) and 8.0 ft (0 ppm). Sample at 4.0 ft and 6.0 ft.

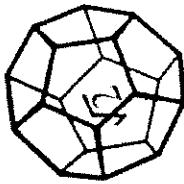
12:30: Install B2 to a depth of 12 ft. Log Soil. PID at 2.9 (3 ppm) and 11.0 ft (4 ppm). Sample at 3.5, 7.5, and 11.5 ft. CJW off-site.

1:30: Install B3 to a depth of 12 ft. Log Soil. PID at 3.5 (11 ppm) and 11.0 ft (11 ppm). Sample at 3.5, 9.5, and 10.5 ft.

2:15: Install B4 to a depth of 12 ft. Log Soil. PID at 3.5 (0 ppm) and 7.0 ft (2 ppm). Sample at 2.5, 7.5, and 10.5 ft.

3:00: Install B5 to a depth of 12 ft. Log Soil. PID at 3.5 (2 ppm) and 11.5 ft (2 ppm). Sample at 2.5, 6.5, 9.5, and 11.5 ft.

3:30: BRH, JLS, and Dennis Lake off-site.



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707-822-4649 Fax 707-422-6811

Chain of Custody

6680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-422-6811

Attention: _____
Results & Invoice to: Ron Kendall
Address: PO BOX 838, Fortuna, CA 95540

Phone: (707) 725-5626
Copies of Report to: LACO; Gary Manhart

Sanjour (Sign & Print): SD-212 Ron Kendall

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



Project

Name: **Dibbles**

Project No.: **4870.00**

Date: **1-26-06**

Global ID No.: **T0602300517**

PM: **GLM**

Tech: **RLD**

Mob/Demob time: **.25/.50**

Travel time: **1.0**

Time on site: **11:40**

Time off site: **12:40**

Mileage: **38**

WELL No.:	MW1							
DIAMETER (in)	2.00							
SCREENED INTERVAL (ft)	5-15							
DEPTH TO WATER (ft)	10.72							
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
pH	7.6	6.0						
TEMP (°C)	12.3	13.4						
Ecw (μmhos)	160	160						
ORP (mV)	-85	30						
DO (mg/L)	5.74	6.01						
OTHER (units)	—							
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING	TIME	12:05	12:13					
	METHOD (DHP/CB/B)	DHP						
	RATE (Lpm)	0.25						
	VOLUME (L)	2.0						
	COLOR	CLEAR	CLEAR					
	ODOR	None						
	INTAKE DEPTH (FEET)	13.0						
	TIME	12:15						
	METHOD (DHP/CB/B)	DHP						
SAMPLE	ANALYTICS	8260 List 1; TPHd/mo w/SGC						
	TOTAL DRAWDOWN (FEET)	1.01						
	REMARKS	18' DHT/1-BF						
WELL CONDITION	GOOD							
WASTE DRUMS	4 DOT DRUMS ONSITE 3 SOIL 1 TRASH+SOIL 0 - pure water							

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

DIBBLES

Project No.: 4870.00

Tech: R.L.D.

Date: 1-26-05



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

DIBBLES

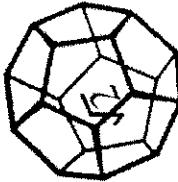
Tech:

卷之三

Date:

1-26-06

Project No.: 4B70-00



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LABORATORIES LTD.

66630 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6881

Chain of Custody

Attention: _____	Phone: (707) 725-5626	Sampler (Sign & Print): RLD / <i>R.L.D.</i>	Project Number: 4870.00	Project Name: Dibbles	ANALYSIS	CONTAINER	PRESERVATIVE	TPHd/mo w/SGC	7
Results & Invoice to: Ron Kendall	Copies of Report to: LACO; Gary Manhart	_____	Purchase Order Number: Task 3035	_____	8260 List I	TPHd/mo w/SGC	7	7	9
Address: PO BOX 838, Fortuna, CA 95540	_____	_____	_____	_____	_____	_____	_____	_____	10
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								_____	476

DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.



Project Name:	Tech: SJD RLD							
Project No.:	Mob/Demob time: 50/50							
Date:	Travel time: 1:0							
Golbal ID No.:	Time on site: 12:20							
PM: MRK	Time off site: 1:20							
WELL No:	MW1	MW2	MW3					
DIAMETER (in)	2.00	2.00	2.00					
SCREENED INTERVAL (ft)	5-15	5-15	5-15					
DEPTH TO WATER (ft)	13.92	12.92	13.62					
FIELD INTRINSICS								
pH	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
TEMP (°C)								
E _{CW} (μmhos)								
ORP (mV)								
DO (mg/L)								
OTHER (units)								
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING				PURGE				
TIME	1:05	1:15						
METHOD (DHP/CB/B)	3/4" B							
RATE (Lpm)								
VOLUME (L)	0.50							
COLOR	CLOUDY CLEAR	TAN						
ODOR	NONE							
INTAKE DEPTH (FEET)	14.5							
TIME	1:17							
METHOD (DHP/CB/B)	3/4" B							
ANALYTIES	8260 List 1; TPHd/mo w/SGC							
TOTAL DRAWDOWN (FEET)								
REMARKS	BARELY ENOUGH TO GET Sample							
WELL CONDITION	Good		Good		Good			
WASTE DRUMS	4 DOT DRUMS ON SITE 3-SOIL 1-TRASHED SOIL 0-PURGE H2O							

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

DIBBLES

Tech: RUD

Project No.:

4870.00

Date: 2-23-06

WELL ID:	MW1	WELL ID:	MW2	WELL ID:	MW3	WELL ID:		WELL ID:		WELL ID:	
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TIME	DTW (ft)										
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12:25	13. ⁹²	12:30	12.92	12:35	13. ⁶²						
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12:40	13. ⁹²	12:45	12.92	12:50	13. ⁶²						
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WELL ID:											
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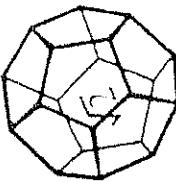
TIME	DTW (ft)										
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WELL ID:											
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TIME	DTW (ft)										
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NORTH COAST
LABORATORIES LTD.

ECONOMIC POLICY IN A DEVELOPING COUNTRY

Chain of Custody

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other



ACO ASSOCIATES

CONSULTING ENGINEERS

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TEL 707.443.5054

FAX 707.443.0553

Page 1 of 1

Project Name: Dibbles				Tech: SJD <i>RJD with Dibbles</i>				
Project No.: 4870.00				Mob/Demob time: 50/50				
Date: 3/7/06				Travel time: 1.0				
Global ID No.: T0602300517				Time on site: 12:45				
PM: MRK				Time off site: 2:30				
WELL No.:	MW1	MW2	MW3					
DIAMETER (in)	2.00	2.00	2.00					
SCREENED INTERVAL (ft)	5-15	5-15	5-15					
DEPTH TO WATER (ft)	10.26	9.61	9.50					
FIELD INTRINSICS								
pH	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
TEMP (°C)	13.7	12.6	13.6	13.7	12.3	12.8		
Ecw (μmhos)	140	140	80	80	120	120		
ORP (mV)	134	196	200	225	200	202		
DO (mg/L)	5.74	6.15	8.03	8.16	8.36	9.37		
OTHER (units)								
PURGE								
TIME	1:41	1:49	2:23	2:29	2:05	2:14		
METHOD (DHP/CB/B)	DHP		DHP		DHP			
RATE (Lpm)	0.25		0.25		0.25			
VOLUME (L)	2.0		1.5		1.5			
COLOR	CLEAR	CLEAR	CLEAR	TAN TINT	CLEAR	CLEAR		
ODOR	NONE		NONE		NONE			
INTAKE DEPTH (FEET)	13.0		13.0		13.0			
SAMPLE								
TIME	1:51		2:31		2:13			
METHOD (DHP/CB/B)	DHP		DHP		DHP			
ANALYTICS	8260 List 1; TPHd/mo w/SGC		8260 List 1; TPHd/mo w/SGC		8260 List 1; TPHd/mo w/SGC			
TOTAL DRAWDOWN (FEET)	0.55		0.41		1.03			
REMARKS	pH METER NOT WORKING		pH METER NOT WORKING		pH METER NOT WORKING			
WELL CONDITION	Good		Good		Good			
WASTE DRUMS								

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

REVISED 3/6/2006

Shelley — Reviewer



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name:

DISBLAS

Project No.: 4870.00

Tech: R.D.

Date: 3-7-06

WELL ID: MW3

WELL ID:

WELL ID:

~~WELL ID:~~



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

Tech: ZDP

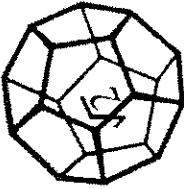
Date: 3-7-06

Project No.: 4870.00

Project No.: 4870.00

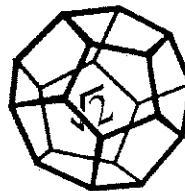
Chain of Custody

5680 West End Road • Arcata • CA 95521-9202
707.822.4649 Fax 707.822.6881



***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

Attachment 3



**NORTH COAST
LABORATORIES LTD.**

February 09, 2006

Pvt. cust. paying on pickup

Order No.: 0602056

Invoice No.: 56176

PO No.: TASK 3035

ELAP No. 1247-Expires July 2006

Attn: Ron Kendall

RE: 4870.00, Dibbles

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4870-MW1-W
01D	4870-MW1-W
02A	4870-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackston *msnwood*

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: Pvt. cust. paying on pickup
Project: 4870.00, Dibbles
Lab Order: 0602056

CASE NARRATIVE

The sample submitted for a silica gel cleanup was initially analyzed for diesel/motor oil. The sample showed no detectable levels of the analytes and was not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for diesel. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the sample; therefore, the data were accepted.

Gasoline Components/Additives:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for benzene. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

Date: 09-Feb-06
WorkOrder: 0602056

ANALYTICAL REPORT

Client Sample ID: 4870-MW1-W
Lab ID: 0602056-01A

Received: 2/1/06

Collected: 1/26/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl <i>tert</i> -butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/7/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/7/06
Di-Isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/7/06
Ethyl <i>tert</i> -butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/7/06
Benzene	ND	0.50	µg/L	1.0		2/7/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/7/06
Toluene	ND	0.50	µg/L	1.0		2/7/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/7/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/7/06
o-Xylene	ND	0.50	µg/L	1.0		2/7/06
Surrogate: 1,4-Dichlorobenzene-d4	111	80.8-139	% Rec	1.0		2/7/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/7/06

Client Sample ID: 4870-MW1-W

Received: 2/1/06

Collected: 1/26/06 0:00

Lab ID: 0602056-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/6/06	2/7/06
TPHC Motor Oil	ND	170	µg/L	1.0	2/6/06	2/7/06

Date: 09-Feb-06
WorkOrder: 0602056

ANALYTICAL REPORT

Client Sample ID: 4870-QCTB-W
Lab ID: 0602056-02A

Received: 2/1/06

Collected: 1/26/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl <i>tert</i> -butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/6/06
Ethyl <i>tert</i> -butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/6/06
Benzene	ND	0.50	µg/L	1.0		2/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/6/06
Toluene	ND	0.50	µg/L	1.0		2/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/6/06
o-Xylene	ND	0.50	µg/L	1.0		2/6/06
Surrogate: 1,4-Dichlorobenzene-d4	109	80.8-139	% Rec	1.0		2/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		2/6/06

North Coast Laboratories, Ltd.

Date: 09-Feb-06

CLIENT: Pvt. cust. paying on pickup

Work Order: 0602056

Project: 4870.00, Dibbles

QC SUMMARY REPORT

Method Blank

Sample ID: MB-2/6/06	Batch ID: R39631	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 2/6/06 11:19:00 AM			Prep Date:				
Client ID:		Run ID: ORGCMS3_060206B		SeqNo: 569357							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0									
Tert-butyl alcohol (TBA)	ND	10									
Di-isopropyl ether (DIPE)	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Benzene	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	1.0									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	0.1475	0.50									
o-Xylene	ND	0.50									
1,4-Dichlorobenzene-d4	1.10	0.10	1.00	0	110%	81	139	0			J
Sample ID: MB-2/6/06	Batch ID: R39627	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/6/06 11:19:00 AM			Prep Date:				
Client ID:		Run ID: ORGCMS3_060206A		SeqNo: 569289							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
TPHC Gasoline	26.29	50									
Sample ID: MB-15118	Batch ID: 15118	Test Code: TPHDMW	Units: µg/L	Analysis Date: 2/7/06 7:59:47 PM			Prep Date: 2/6/06				
Client ID:		Run ID: ORGC7_060208B		SeqNo: 569658							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	ND	50									
TPHC Motor Oil	ND	170									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 09-Feb-06

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: Pvt. cust. paying on pickup

Work Order: 0602056

Project: 4870.00, Dibbles

Sample ID:	LCS-06079	Batch ID:	R39631	Test Code:	82600XYW	Units:	µg/L			Analysis Date:	2/6/06 7:55:00 AM	Prep Date:
Client ID:				Run ID:	ORGCMSS3_060206B <td></td> <td></td> <th>SeqNo:</th> <td>569354</td> <td></td> <td></td>			SeqNo:	569354			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	21.43	1.0	20.0	0	107%	80	120	120	0	0		
Tert-butyl alcohol (TBA)	477.3	10	400	0	119%	25	162	162	0	0		
Di-isopropyl ether (DIPE)	21.22	1.0	20.0	0	105%	80	120	120	0	0		
Ethyl tert-butyl ether (ETBE)	20.22	1.0	20.0	0	101%	77	120	120	0	0		
Benzene	23.41	0.50	20.0	0	117%	78	117	117	0	0	S	
Tert-amyly methyl ether (TAME)	19.62	1.0	20.0	0	98.1%	64	136	136	0	0		
Toluene	22.05	0.50	20.0	0	110%	80	120	120	0	0		
Ethylbenzene	20.60	0.50	20.0	0	103%	80	120	120	0	0		
m,p-Xylene	42.94	0.50	40.0	0	107%	80	120	120	0	0		
o-Xylene	18.04	0.50	20.0	0	90.2%	80	120	120	0	0		
1,4-Dichlorobenzene-d4	1.16	0.10	1.00	0	116%	81	139	139	0	0		
Sample ID:	LCSD-06079	Batch ID:	R39631	Test Code:	82600XYW	Units:	µg/L			Analysis Date:	2/6/06 8:20:00 AM	Prep Date:
Client ID:				Run ID:	ORGCMSS3_060206B <td></td> <td></td> <th>SeqNo:</th> <td>569355</td> <td></td> <td></td>			SeqNo:	569355			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	21.78	1.0	20.0	0	109%	80	120	21.4	1.63%	20		
Tert-butyl alcohol (TBA)	457.1	10	400	0	114%	25	162	477	4.34%	20		
Di-isopropyl ether (DIPE)	21.90	1.0	20.0	0	109%	80	120	21.2	3.13%	20		
Ethyl tert-butyl ether (ETBE)	20.84	1.0	20.0	0	104%	77	120	20.2	2.98%	20		
Benzene	24.13	0.50	20.0	0	121%	78	117	23.4	3.03%	20	S	
Tert-amyly methyl ether (TAME)	19.99	1.0	20.0	0	99.9%	64	136	19.6	1.86%	20		
Toluene	22.61	0.50	20.0	0	113%	80	120	22.0	2.47%	20		
Ethylbenzene	21.11	0.50	20.0	0	106%	80	120	20.6	2.41%	20		
m,p-Xylene	44.08	0.50	40.0	0	110%	80	120	42.9	2.62%	20		
o-Xylene	18.65	0.50	20.0	0	93.2%	80	120	18.0	3.28%	20		
1,4-Dichlorobenzene-d4	1.16	0.10	1.00	0	115%	81	139	1.16	0.851%	20		

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pvt. cust. paying on pickup
Work Order: 0602056
Project: 4870.00, Dibbles

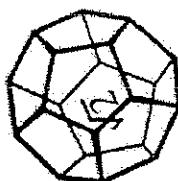
QC SUMMARY REPORT
Laboratory Control Spike

Sample ID:	LCS-06080	Batch ID:	R39627	Test Code:	GASW-MS	Units:	µg/L	Analysis Date:	2/6/06 9:37:00 AM	Prep Date:	
Client ID:		Run ID:	ORGCMSS3_060206A					SeqNo:	569286		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	920.9	50	1,000	0	92.1%	80	120	0			
Sample ID:	LCSD-06080	Batch ID:	R39627	Test Code:	GASW-MS	Units:	µg/L	Analysis Date:	2/6/06 10:03:00 AM	Prep Date:	
Client ID:		Run ID:	ORGCMSS3_060206A					SeqNo:	569287		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	922.8	50	1,000	0	92.3%	80	120	921	0.211%	20	
Sample ID:	LCS-15118	Batch ID:	15118	Test Code:	TPHDMW	Units:	µg/L	Analysis Date:	2/8/06 6:29:47 PM	Prep Date:	
Client ID:		Run ID:	ORGCT_060208B					SeqNo:	569662		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	682.2	50	500	0	136%	72	124	0			S
TPHC Motor Oil	1,184	170	1,000	0	118%	71	139	0			
Sample ID:	LCSD-15118	Batch ID:	15118	Test Code:	TPHDMW	Units:	µg/L	Analysis Date:	2/8/06 6:49:50 PM	Prep Date:	
Client ID:		Run ID:	ORGCT_060208B					SeqNo:	569663		
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	707.8	50	500	0	142%	72	124	682	3.69%	15	S
TPHC Motor Oil	1,185	170	1,000	0	119%	71	139	1,180	0.0811%	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



**NORTH COAST
LABORATORIES LTD.**

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707-822-4649 Fax 707-822-6831

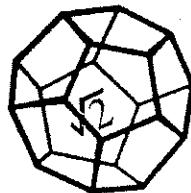
Chain of Custody

Attention:	Ron Kendall
Results & Invoice to:	PO BOX 838, Fortuna, CA 95540
Address:	
Phone:	(707) 725-5626
Copies of Report to:	LACO; Gary Manhart
Sampler (Sign & Print):	
PROJECT INFORMATION	
Project Number:	4870.00
Project Name:	Dibbles
Purchase Order Number:	Task 3035

SAMPLE DISPOSAL	
<input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated	<input type="checkbox"/> Pickup
<input type="checkbox"/> Return	
CHAIN OF CUSTODY SEALS Y/N/NA <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No SHIPPED VIA: UPS Air-Ex Fed-Ex <input checked="" type="checkbox"/> Hand <input type="checkbox"/> Bus	

FMATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

March 09, 2006

Pvt. cust. paying on pickup

,

Attn: Ron Kendall

RE: 4870.00, Dibbles

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4870-MW1-W
01D	4870-MW1-W
02A	4870-QCTB-W

Order No.: 0603085

Invoice No.: 56731

PO No.: TASK 3035

ELAP No. 1247-Expires July 2006

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackstone

Laboratory Supervisor(s)

SAW

QA Unit

Jesse G. Chaney, Jr.

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: Pvt. cust. paying on pickup
Project: 4870.00, Dibbles
Lab Order: 0603085

CASE NARRATIVE**Gasoline Components/Additives:**

The surrogate recovery for the method blank was below the lower acceptance limit. The response of the reporting limit standard was such that the analytes would have been detected even with the low recovery; therefore, the data were accepted.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were below the lower acceptance limits for benzene and toluene. The response of the reporting limit standard was such that the analyte would have been detected even with the low recovery; therefore, the data were accepted.

TPH as Diesel and Motor Oil:

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

Due to a laboratory error, the laboratory control sample duplicate (LCSD) was fortified with twice the standard concentration of motor oil. This error has caused the relative percent difference (RPD) for the laboratory control samples to be above the acceptance limit for motor oil.

Date: 09-Mar-06
WorkOrder: 0603085

ANALYTICAL REPORT

Client Sample ID: 4870-MW1-W Received: 3/2/06 Collected: 2/23/06 0:00
Lab ID: 0603085-01A

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		3/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		3/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/6/06
Benzene	ND	0.50	µg/L	1.0		3/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/6/06
Toluene	ND	0.50	µg/L	1.0		3/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/6/06
o-Xylene	ND	0.50	µg/L	1.0		3/6/06
Surrogate: 1,4-Dichlorobenzene-d4	83.0	80.8-139	% Rec	1.0		3/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/6/06

Client Sample ID: 4870-MW1-W

Received: 3/2/06

Collected: 2/23/06 0:00

Lab ID: 0603085-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	3/3/06	3/6/06
TPHC Motor Oil	ND	170	µg/L	1.0	3/3/06	3/6/06

Date: 09-Mar-06
WorkOrder: 0603085

ANALYTICAL REPORT

Client Sample ID: 4870-QCTB-W
Lab ID: 0603085-02A

Received: 3/2/06

Collected: 2/23/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		3/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		3/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/6/06
Benzene	ND	0.50	µg/L	1.0		3/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/6/06
Toluene	ND	0.50	µg/L	1.0		3/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/6/06
o-Xylene	ND	0.50	µg/L	1.0		3/6/06
Surrogate: 1,4-Dichlorobenzene-d4	83.0	80.8-139	% Rec	1.0		3/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/6/06

North Coast Laboratories, Ltd.

Date: 09-Mar-06

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603085
Project: 4870.00, Dibbles

QC SUMMARY REPORT

Method Blank

Sample ID	MB 030606	Batch ID:	R40118	Test Code:	82600XYW	Units:	µg/L	Analysis Date	3/6/06 7:49:00 AM	Prep Date		
Client ID:		Run ID:		ORGCMS2_060306A				SeqNo:	576425			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0										
Tert-butyl alcohol (TBA)	ND	10										
Di-isopropyl ether (DIPE)	ND	1.0										
Ethyl tert-butyl ether (ETBE)	ND	1.0										
Benzene	0.1084	0.50										J
Tert-amyl methyl ether (TAME)	ND	1.0										
Toluene	0.3258	0.50										J
Ethylbenzene	0.2233	0.50										J
m,p-Xylene	0.2866	0.50										J
o-Xylene	0.2160	0.50										J
1,4-Dichlorobenzene-d4	0.805	0.10	1.00	0	0	80.5%	81	139	0	S		S
Sample ID	MB 030606	Batch ID:	R40120	Test Code:	GASW-MS	Units:	µg/L	Analysis Date	3/6/06 7:49:00 AM	Prep Date		
Client ID:		Run ID:		ORGCMS2_060306B				SeqNo:	576461			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline	ND	50										
Sample ID	MB-15293	Batch ID:	15293	Test Code:	TPHDMW	Units:	µg/L	Analysis Date	3/6/06 2:32:33 PM	Prep Date		
Client ID:		Run ID:		ORGC7_060306A				SeqNo:	577065			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	ND	50										
TPHC Motor Oil	66.08	170										J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 09-Mar-06

CLIENT: Pvt. cust. paying on pickup

Work Order: 0603085

Project: 4870.00, Dibbles

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	Client ID:	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date
Analyte			Run ID:	SeqNo:		
Methyl tert-butyl ether (MTBE)		17.36	1.0	20.0	86.8%	0
Tert-butyl alcohol (TBA)		511.1	10	400	128%	0
Di-isopropyl ether (DIPE)		18.28	1.0	20.0	91.4%	0
Ethyl tert-butyl ether (ETBE)		18.01	1.0	20.0	90.0%	0
Benzene		15.43	0.50	20.0	77.1%	0
Tert-amyI methyl ether (TAME)		19.81	1.0	20.0	99.0%	0
Toluene		15.05	0.50	20.0	75.3%	0
Ethylbenzene		16.74	0.50	20.0	83.7%	0
m,p-Xylene		33.84	0.50	40.0	84.6%	0
o-Xylene		18.49	0.50	20.0	92.4%	0
1,4-Dichlorobenzene-d4		1.01	0.10	1.00	101%	0
Sample ID	LCSD-06137	Batch ID:	R40118	Test Code:	8260OXYW	Analysis Date
Client ID:			Run ID:	ORGCMSS2_060306A	SeqNo:	3/6/06 3:47:00 AM
Analyte					576422	Prep Date
Methyl tert-butyl ether (MTBE)		16.57	1.0	20.0	82.8%	0
Tert-butyl alcohol (TBA)		462.4	10	400	116%	0
Di-isopropyl ether (DIPE)		18.07	1.0	20.0	90.4%	0
Ethyl tert-butyl ether (ETBE)		17.27	1.0	20.0	86.4%	0
Benzene		15.28	0.50	20.0	76.4%	0
Tert-amyI methyl ether (TAME)		19.21	1.0	20.0	96.1%	0
Toluene		5.20	0.50	20.0	76.0%	0
Ethylbenzene		6.74	0.50	20.0	83.7%	0
m,p-Xylene		33.92	0.50	40.0	84.8%	0
o-Xylene		18.17	0.50	20.0	90.8%	0
1,4-Dichlorobenzene-d4		1.04	0.10	1.00	104%	0

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603085
Project: 4870.00, Dibbles

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	LCS-06138	Batch ID:	R40120	Test Code:	GASW-MS	Units:	µg/l		Analysis Date	3/6/06 5:49:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_060306B					SeqNo:	576458			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,129	50	1,000	0	113%	80	120	0				
Sample ID	LCSD-06138	Batch ID:	R40120	Test Code:	GASW-MS	Units:	µg/l		Analysis Date	3/6/06 6:19:00 AM	Prep Date	
Client ID:		Run ID:	ORGCMS2_060306B					SeqNo:	576459			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,087	50	1,000	0	109%	80	120	1,130	3.85%	20		
Sample ID	LCS-15293	Batch ID:	15293	Test Code:	TPHDMW	Units:	µg/l		Analysis Date	3/6/06 12:30:58 PM	Prep Date	
Client ID:		Run ID:	ORGCT_060306A					SeqNo:	577062			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	405.5	50	500	0	81.1%	72	124	0				
TPHC Motor Oil	1,093	170	1,000	0	109%	71	139	0				
Sample ID	LCSD-15293	Batch ID:	15293	Test Code:	TPHDMW	Units:	µg/l		Analysis Date	3/6/06 12:51:16 PM	Prep Date	
Client ID:		Run ID:	ORGCT_060306A					SeqNo:	577063			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	459.1	50	500	0	91.8%	72	124	406	12.4%	15		
TPHC Motor Oil	1,825	170	2,000	0	91.2%	71	139	1,090	50.1%	15	R	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

NORTH COAST
LABORATORIES LTD.

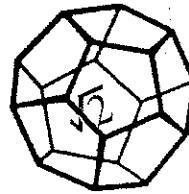
A geometric diagram illustrating the decomposition of a large dodecahedron into smaller polyhedra. The large dodecahedron is composed of 20 faces, each of which is further subdivided into smaller polyhedra. One specific central polyhedron is highlighted with a different shading pattern, consisting of several smaller faces.

Chain of Custody

LABORATORY NUMBER: []	
TAT: <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> Other... <input checked="" type="checkbox"/> STD (2-3 Wk)	PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES <input type="checkbox"/> Reporting Requirements: State Forms: Preliminary: FAX <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____ Final Report: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____
CONTAINER CODES: 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other	
PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ Cl; g—other	
SAMPLE CONDITION/SPECIAL INSTRUCTIONS GEOTRACKER LAMINATED Amoxat → Lab <i>Cold water</i>	
SAMPLE DISPOSAL <input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated <input type="checkbox"/> Return <input type="checkbox"/> Pickup	
CHAIN OF CUSTODY SEALS Y/N/NA [] SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand	

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

January 16, 2006

Pvt. cust. paying on pickup

Order No.: 0512660

Invoice No.: 55659

PO No.: TASK 3030

ELAP No. 1247-Expires July 2006

Attn: Ron Kendall

RE: 4870.00, Dibbles

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4870-MW1-W
01D	4870-MW1-W
02A	4870-MW2-W
02D	4870-MW2-W
03A	4870-MW3-W
03D	4870-MW3-W
04A	4870-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: Pvt. cust. paying on pickup
Project: 4870.00, Dibbles
Lab Order: 0512660

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

Gasoline Components/Additives:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were below the lower acceptance limit for o-xylene. The response of the reporting limit standard was such that the analyte would have been detected even with the low recoveries; therefore, the data were accepted.

Date: 16-Jan-06
WorkOrder: 0512660

ANALYTICAL REPORT

Client Sample ID: 4870-MW1-W
Lab ID: 0512660-01A

Received: 12/29/05

Collected: 12/23/05 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	4.5	1.0	µg/L	1.0		1/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		1/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		1/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		1/6/06
Benzene	ND	0.50	µg/L	1.0		1/6/06
Tert-amyl methyl ether (TAME)	1.5	1.0	µg/L	1.0		1/6/06
Toluene	ND	0.50	µg/L	1.0		1/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/6/06
o-Xylene	ND	0.50	µg/L	1.0		1/6/06
Surrogate: 1,4-Dichlorobenzene-d4	109	80.8-139	% Rec	1.0		1/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		1/6/06

Client Sample ID: 4870-MW1-W

Received: 12/29/05

Collected: 12/23/05 0:00

Lab ID: 0512660-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	12/30/05	1/13/06
TPHC Motor Oil	ND	170	µg/L	1.0	12/30/05	1/13/06

Date: 16-Jan-06
WorkOrder: 0512660

ANALYTICAL REPORT

Client Sample ID: 4870-MW2-W
Lab ID: 0512660-02A

Received: 12/29/05

Collected: 12/23/05 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		1/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		1/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		1/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		1/6/06
Benzene	ND	0.50	µg/L	1.0		1/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		1/6/06
Toluene	ND	0.50	µg/L	1.0		1/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/6/06
o-Xylene	ND	0.50	µg/L	1.0		1/6/06
Surrogate: 1,4-Dichlorobenzene-d4	110	80.8-139	% Rec	1.0		1/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		1/6/06

Client Sample ID: 4870-MW2-W

Received: 12/29/05

Lab ID: 0512660-02D

Collected: 12/23/05 0:00

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	12/30/05	1/13/06
TPHC Motor Oil	ND	170	µg/L	1.0	12/30/05	1/13/06

Date: 16-Jan-06
WorkOrder: 0512660

ANALYTICAL REPORT

Client Sample ID: 4870-MW3-W
Lab ID: 0512660-03A

Received: 12/29/05

Collected: 12/23/05 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		1/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		1/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		1/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		1/6/06
Benzene	ND	0.50	µg/L	1.0		1/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		1/6/06
Toluene	ND	0.50	µg/L	1.0		1/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/6/06
o-Xylene	ND	0.50	µg/L	1.0		1/6/06
Surrogate: 1,4-Dichlorobenzene-d4	109	80.8-139	% Rec	1.0		1/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		1/6/06

Client Sample ID: 4870-MW3-W

Received: 12/29/05

Collected: 12/23/05 0:00

Lab ID: 0512660-03D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	12/30/05	1/13/06
TPHC Motor Oil	ND	170	µg/L	1.0	12/30/05	1/13/06

Date: 16-Jan-06
WorkOrder: 0512660

ANALYTICAL REPORT

Client Sample ID: 4870-QCTB-W
Lab ID: 0512660-04A

Received: 12/29/05

Collected: 12/23/05 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		1/6/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		1/6/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		1/6/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		1/6/06
Benzene	ND	0.50	µg/L	1.0		1/6/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		1/6/06
Toluene	ND	0.50	µg/L	1.0		1/6/06
Ethylbenzene	ND	0.50	µg/L	1.0		1/6/06
m,p-Xylene	ND	0.50	µg/L	1.0		1/6/06
o-Xylene	ND	0.50	µg/L	1.0		1/6/06
Surrogate: 1,4-Dichlorobenzene-d4	106	80.8-139	% Rec	1.0		1/6/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		1/6/06

North Coast Laboratories, Ltd.

Date: 16-Jan-06

CLIENT: Pvt. cust. paying on pickup

Work Order: 0512660

Project: 4870.00, Dibbles

QC SUMMARY REPORT

Method Blank

Sample ID: MB 010606		Batch ID: R39048	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 1/6/06 5:04:00 AM			Prep Date:				
Client ID:		Run ID:	ORGCMS3_060106B		SeqNo:	561341						
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)		ND	1.0									
Tert-butyl alcohol (TBA)		ND	10									
Di-isopropyl ether (DIPE)		ND	1.0									
Ethyl tert-butyl ether (ETBE)		ND	1.0									
Benzene		ND	0.50									
Tert-amyl methyl ether (TAME)		ND	1.0									
Toluene		ND	0.50									
Ethylbenzene		0.08264	0.50									J
m,p-Xylene		0.1510	0.50									J
o-Xylene		ND	0.50									
1,4-Dichlorobenzene-d4		1.07	0.10	1.00	0	107%	81	139	0			
Sample ID: MB 010606	Batch ID: R39047	Test Code: GASW-MS	Units: µg/L		Analysis Date: 1/6/06 5:04:00 AM			Prep Date:				
Client ID:		Run ID:	ORGCMS3_060106A		SeqNo:	561292						
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline		27.82	50									J
Sample ID: MB-14929	Batch ID: 14929	Test Code: TP4HDMW	Units: µg/L		Analysis Date: 1/13/06 2:43:03 PM			Prep Date: 12/30/05				
Client ID:		Run ID:	ORGCT_060113A		SeqNo:	563059						
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		ND	50									
TPHC Motor Oil		ND	170									

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 16-Jan-06

CLIENT: Pvt. cust. paying on pickup

Work Order: 0512660

Project: 4870.00, Dibbles

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: LCS-06008 Batch ID: R39048 Test Code: 82600XYW Units: µg/L

Client ID: Run ID: ORGCMS3_060106B Analysis Date: 1/6/06 9:44:00 AM

SeqNo: 561351 Prep Date:

Analyte Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual

Methyl tert-butyl ether (MTBE)	17.63	1.0	20.0	0	88.1%	80	120	0	0	0
Tert-butyl alcohol (TBA)	383.8	10	400	0	95.9%	25	162	0	0	0
Di-isopropyl ether (DIPE)	17.97	1.0	20.0	0	89.9%	80	120	0	0	0
Ethyl tert-butyl ether (ETBE)	16.65	1.0	20.0	0	83.2%	77	120	0	0	0
Benzene	20.78	0.50	20.0	0	104%	78	117	0	0	0
Tert-amyI methyl ether (TAME)	16.15	1.0	20.0	0	80.7%	64	136	0	0	0
Toluene	19.42	0.50	20.0	0	97.1%	80	120	0	0	0
Ethylbenzene	17.94	0.50	20.0	0	89.7%	80	120	0	0	0
m,p-Xylene	37.40	0.50	40.0	0	93.5%	80	120	0	0	0
o-Xylene	15.41	0.50	20.0	0	77.0%	80	120	0	0	0
1,4-Dichlorobenzene-d4	1.18	0.10	1.00	0	118%	81	139	0	0	S

Sample ID: LCSD-06008 Batch ID: R39048 Test Code: 82600XYW Units: µg/L	Run ID: ORGCMS3_060106B Analysis Date: 1/6/06 10:09:00 AM	SeqNo: 561352 Prep Date:								
Client ID: Analyte Result Limit SPK value SPK Ref Val % Rec LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual										
Methyl tert-butyl ether (MTBE)	18.15	1.0	20.0	0	90.7%	80	120	17.6	2.92%	20
Tert-butyl alcohol (TBA)	404.0	10	400	0	101%	25	162	384	5.14%	20
Di-isopropyl ether (DIPE)	18.59	1.0	20.0	0	93.0%	80	120	18.0	3.39%	20
Ethyl tert-butyl ether (ETBE)	17.26	1.0	20.0	0	86.3%	77	120	16.6	3.61%	20
Benzene	20.90	0.50	20.0	0	104%	78	117	20.8	0.562%	20
Tert-amyI methyl ether (TAME)	16.76	1.0	20.0	0	83.8%	64	136	16.2	3.74%	20
Toluene	19.40	0.50	20.0	0	97.0%	80	120	19.4	0.0828%	20
Ethylbenzene	18.11	0.50	20.0	0	90.5%	80	120	17.9	0.914%	20
m,p-Xylene	37.70	0.50	40.0	0	94.2%	80	120	37.4	0.805%	20
o-Xylene	15.23	0.50	20.0	0	76.2%	80	120	15.4	1.14%	20
1,4-Dichlorobenzene-d4	1.15	0.10	1.00	0	115%	81	139	1.18	2.63%	20

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Pvt. cust. paying on pickup
Work Order: 0512660
Project: 4870.00, Dibbles

QC SUMMARY REPORT
Laboratory Control Spike

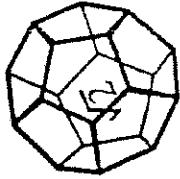
Sample ID: LGS-06009	Batch ID: R39047	Test Code: GASW-MS	Units: µg/L	Analysis Date: 1/6/06 11:00:00 AM			Prep Date:				
Client ID:	Run ID: ORGCMS3_060106A			SeqNo:	561302						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline	854.4	50	1,000	0	85.4%	80	120	0			
Sample ID: LCSD-06009	Batch ID: R39047	Test Code: GASW-MS	Units: µg/L	Analysis Date: 1/6/06 11:26:00 AM			Prep Date:				
Client ID:	Run ID: ORGCMS3_060106A			SeqNo:	561303						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline	859.7	50	1,000	0	86.0%	80	120	854	0.616%	20	
Sample ID: LCS-14929	Batch ID: 14929	Test Code: TPHDMW	Units: µg/L	Analysis Date: 1/13/06 12:42:54 PM			Prep Date: 12/30/05				
Client ID:	Run ID: ORGC7_060113A			SeqNo:	563056						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	527.2	50	500	0	105%	72	124	0			
TPHC Motor Oil	1,059	170	1,000	0	106%	71	139	0			
Sample ID: LCSD-14929	Batch ID: 14929	Test Code: TPHDMW	Units: µg/L	Analysis Date: 1/13/06 1:02:53 PM			Prep Date: 12/30/05				
Client ID:	Run ID: ORGC7_060113A			SeqNo:	563057						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)	573.5	50	500	0	115%	72	124	527	8.41%	15	
TPHC Motor Oil	1,037	170	1,000	0	104%	71	139	1,060	2.06%	15	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



NORTH COAST
LABORATORIES LTD.

6600 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

Attention: _____	Results & Invoice to: Ron Kendall			
Address: PO BOX 838, Fortuna, CA 95540	Phone: (707) 725-5626			
Copies of Report to: LACO; Gary Manhart	Sampler (Sign & Print): <u>SID-BID for ACQ</u>			
PROJECT INFORMATION				
Project Number: <u>4870.00</u>	Project Name: <u>Dibbles</u>			
Purchase Order Number: Task <u>2030</u>				
LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
4870-MW1-W	<u>12-23-05</u>	<u>AM</u>	<u>GW</u>	3 1
4870-MW2-W		<u>PM</u>		3 1
4870-MW3-W		<u>PM</u>		3 1
4870-QCTB-W		<u>PM</u>		1

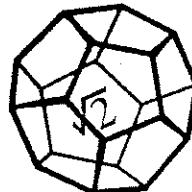
LABORATORY NUMBER:	<input type="checkbox"/> TAT: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day		
✓ STD (2-3 Wk)	<input type="checkbox"/> Other: _____		
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES			
REPORTING REQUIREMENTS:		State Forms I, II	
Preliminary:	<input checked="" type="checkbox"/> FAX	<input type="checkbox"/> Verbal	<input type="checkbox"/> By _____
Final Report:	<input type="checkbox"/> FAX	<input type="checkbox"/> Verbal	<input type="checkbox"/> By _____
CONTAINER CODES: 1— $\frac{1}{2}$ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BC; 6—500 ml BC; 7—1 L BC; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other			
PRESERVATIVE CODES: a— HNO_3 ; b— HCl ; c— H_2SO_4 ; d— $\text{Na}_2\text{S}_2\text{O}_3$; e— NaOH ; f—C, H_3OCl ; g—other			
SAMPLE CONDITION/SPECIAL INSTRUCTIONS			
GEOTRACKER			

SAMPLE DISPOSAL	
NCL Disposal of Non-Contaminated	
<input type="checkbox"/> Return	<input type="checkbox"/> Pickup
CHAIN OF CUSTODY SEALS Y/N/NA	
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand	

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

2
a

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

March 15, 2006

RECEIVED	
LACO ASSOCIATES	
MAR 16 2006	
BY:	JG

Pvt. cust. paying on pickup

CJW
HRK (jl)

Attn: Ron Kendall

RE: 4870.00, Dibbles

Order No.: 0603190
Invoice No.: 56850
PO No.: TASK 3035
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4870-MW1-W
01D	4870-MW1-W
02A	4870-MW2-W
02D	4870-MW2-W
03A	4870-MW3-W
03D	4870-MW3-W
04A	4870-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Gillian Blackstone

Laboratory Supervisor(s)

T. Shue

QA Unit

Jesse G. Chaney, Jr.

Laboratory Director

CLIENT: Pvt. cust. paying on pickup
Project: 4870.00, Dibbles
Lab Order: 0603190

CASE NARRATIVE

TPH as Diesel/Motor Oil:

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were below the lower acceptance limit for diesel. The response of the reporting limit standard was such that the analyte would have been detected even with the low recoveries; therefore, the data were accepted.

Date: 15-Mar-06
WorkOrder: 0603190

ANALYTICAL REPORT

Client Sample ID: 4870-MW1-W
Lab ID: 0603190-01A

Received: 3/7/06

Collected: 3/7/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	1.5	1.0	µg/L	1.0		3/13/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/13/06
Di-isopropyl ether (DIBE)	ND	1.0	µg/L	1.0		3/13/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/13/06
Benzene	ND	0.50	µg/L	1.0		3/13/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/13/06
Toluene	ND	0.50	µg/L	1.0		3/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/13/06
o-Xylene	ND	0.50	µg/L	1.0		3/13/06
Surrogate: 1,4-Dichlorobenzene-d4	94.8	80.8-139	% Rec	1.0		3/13/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/13/06

Client Sample ID: 4870-MW1-W

Received: 3/7/06

Collected: 3/7/06 0:00

Lab ID: 0603190-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	3/8/06	3/9/06
TPHC Motor Oil	ND	170	µg/L	1.0	3/8/06	3/9/06

Date: 15-Mar-06
WorkOrder: 0603190

ANALYTICAL REPORT

Client Sample ID: 4870-MW2-W
Lab ID: 0603190-02A

Received: 3/7/06

Collected: 3/7/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		3/13/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/13/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		3/13/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/13/06
Benzene	ND	0.50	µg/L	1.0		3/13/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/13/06
Toluene	ND	0.50	µg/L	1.0		3/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/13/06
o-Xylene	ND	0.50	µg/L	1.0		3/13/06
Surrogate: 1,4-Dichlorobenzene-d4	93.9	80.8-139	% Rec	1.0		3/13/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/13/06

Client Sample ID: 4870-MW2-W

Received: 3/7/06

Collected: 3/7/06 0:00

Lab ID: 0603190-02D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	3/8/06	3/9/06
TPHC Motor Oil	ND	170	µg/L	1.0	3/8/06	3/9/06

Date: 15-Mar-06
WorkOrder: 0603190

ANALYTICAL REPORT

Client Sample ID: 4870-MW3-W
Lab ID: 0603190-03A

Received: 3/7/06

Collected: 3/7/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		3/13/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/13/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		3/13/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/13/06
Benzene	ND	0.50	µg/L	1.0		3/13/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/13/06
Toluene	ND	0.50	µg/L	1.0		3/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/13/06
o-Xylene	ND	0.50	µg/L	1.0		3/13/06
Surrogate: 1,4-Dichlorobenzene-d4	94.0	80.8-139	% Rec	1.0		3/13/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/13/06

Client Sample ID: 4870-MW3-W

Received: 3/7/06

Collected: 3/7/06 0:00

Lab ID: 0603190-03D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	3/8/06	3/9/06
TPHC Motor Oil	ND	170	µg/L	1.0	3/8/06	3/9/06

Date: 15-Mar-06
WorkOrder: 0603190

ANALYTICAL REPORT

Client Sample ID: 4870-QCTB-W
Lab ID: 0603190-04A

Received: 3/7/06

Collected: 3/7/06 0:00

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		3/13/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		3/13/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		3/13/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		3/13/06
Benzene	ND	0.50	µg/L	1.0		3/13/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		3/13/06
Toluene	ND	0.50	µg/L	1.0		3/13/06
Ethylbenzene	ND	0.50	µg/L	1.0		3/13/06
m,p-Xylene	ND	0.50	µg/L	1.0		3/13/06
o-Xylene	ND	0.50	µg/L	1.0		3/13/06
Surrogate: 1,4-Dichlorobenzene-d4	92.1	80.8-139	% Rec	1.0		3/13/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		3/13/06

North Coast Laboratories, Ltd.

Date: 15-Mar-06

CLIENT: Pvt cust. paying on pickup
 Work Order: 0603190
 Project: 4870.00, Dibbles

QC SUMMARY REPORT

Method Blank

Sample ID	MB-3131/06	Batch ID:	R40271	Test Code:	8260OXYW	Units:	µg/L	Analysis Date 3/13/06 4:12:00 AM			Prep Date	
Client ID:		Run ID:		ORGCMS3_	060313B			SeqNo:	578512			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		ND	1.0									
Tert-butyl alcohol (TBA)		ND	10									
Diisopropyl ether (DIPE)		ND	1.0									
Ethyl tert-butyl ether (ETBE)		ND	1.0									
Benzene		ND	0.50									
Tert-aryl methyl ether (TAME)		ND	1.0									
Toluene		0.1067	0.50									J
Ethylbenzene		0.2191	0.50									J
m,p-Xylene		0.3563	0.50									J
o-Xylene		ND	0.50									
1,4-Dichlorobenzene-d4		0.928	0.10	1.00	0	92.8%	81	139	0			
Sample ID	MB-3131/06	Batch ID:	R40269	Test Code:	GASW-MS	Units:	µg/L	Analysis Date 3/13/06 4:12:00 AM			Prep Date	
Client ID:		Run ID:		ORGCMS3_	060313A			SeqNo:	578459			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Gasoline		27.87	50									J
Sample ID	MB-15317	Batch ID:	15317	Test Code:	TPHDMW	Units:	µg/L	Analysis Date 3/9/06 5:18:41 AM			Prep Date 3/8/06	
Client ID:		Run ID:		ORGCT_	060309A			SeqNo:	578625			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
TPHC Diesel (C12-C22)		ND	50									
TPHC Motor Oil		58.22	170									J

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 15-Mar-06

CLIENT: Pvt. cust. paying on pickup

Work Order: 0603190

Project: 4870.00, Dibbles

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID	LCS-06157	Batch ID:	R40271	Test Code:	8260OXYW	Units: µg/L	Analysis Date 3/13/06 1:39:00 AM			Prep Date			
Client ID:		Run ID:		ORGCMS3_060313B			% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Analyte		Result	Limit	SPK value	SPK Ref Val		SeqNo:	578510					
Methyl tert-butyl ether (MTBE)		19.35	1.0	20.0	0	96.8%	80	120	120	0	0		
Tert-butyl alcohol (TBA)		402.8	10	400	0	101%	25	162	162	0	0		
Di-isopropyl ether (DIPE)		19.47	1.0	20.0	0	97.4%	80	120	120	0	0		
Ethyl tert-butyl ether (ETBE)		19.22	1.0	20.0	0	96.1%	77	120	120	0	0		
Benzene		18.89	0.50	20.0	0	94.4%	78	117	117	0	0		
Tert-amyl methyl ether (TAME)		21.05	1.0	20.0	0	105%	64	136	136	0	0		
Toluene		19.56	0.50	20.0	0	97.8%	80	120	120	0	0		
Ethylbenzene		18.90	0.50	20.0	0	94.5%	80	120	120	0	0		
m,p-Xylene		38.88	0.50	40.0	0	97.2%	80	120	120	0	0		
o-Xylene		22.17	0.50	20.0	0	111%	80	120	120	0	0		
1,4-Dichlorobenzene-d4		0.946	0.10	1.00	0	94.6%	81	139	139	0	0		
Sample ID	LCSD-06157	Batch ID:	R40271	Test Code:	8260OXYW	Units: µg/L	Analysis Date 3/13/06 11:25:00 AM			Prep Date			
Client ID:		Run ID:		ORGCMS3_060313B			SeqNo:	578529					
Analyte		Result	Limit	SPK value	SPK Ref Val		% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		19.50	1.0	20.0	0	97.5%	80	120	120	19.4	0.748%	20	
Tert-butyl alcohol (TBA)		425.1	10	400	0	106%	25	162	162	403	5.38%	20	
Di-isopropyl ether (DIPE)		19.53	1.0	20.0	0	97.7%	80	120	120	19.5	0.297%	20	
Ethyl tert-butyl ether (ETBE)		18.96	1.0	20.0	0	94.8%	77	120	120	19.2	1.31%	20	
Benzene		19.46	0.50	20.0	0	97.3%	78	117	117	18.9	2.99%	20	
Tert-amyl methyl ether (TAME)		20.96	1.0	20.0	0	105%	64	136	136	21.0	0.413%	20	
Toluene		20.27	0.50	20.0	0	101%	80	120	120	19.6	3.58%	20	
Ethylbenzene		19.68	0.50	20.0	0	98.4%	80	120	120	18.9	4.08%	20	
m,p-Xylene		39.61	0.50	40.0	0	99.0%	80	120	120	36.9	1.86%	20	
o-Xylene		22.01	0.50	20.0	0	110%	80	120	120	22.2	0.703%	20	
1,4-Dichlorobenzene-d4		0.972	0.10	1.00	0	97.2%	81	139	139	0.946	2.74%	20	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
I - Analyte detected above accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank
R - RPD outside accepted recovery limits

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603190
Project: 48700.00, Dibbles.

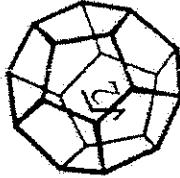
QC SUMMARY REPORT
Laboratory Control Spike

Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date					
Client ID:	Run ID:	ORGCMS3_060313A	µg/L	SeqNo:	578457					
Analyte	Result	Limit	SPK value	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	976.0	50	1,000	0	97.6%	80	120	0	0	
Sample ID	LCSD-06158	Batch ID: R40269	Test Code: GASW-MS	Units: µg/L	Analysis Date 3/13/06 2:55:00 AM	Prep Date				
Client ID:	Run ID:	ORGCMS3_060313A		SeqNo:	578484					
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
TPHC Gasoline	944.6	50	1,000	0	94.5%	80	120	976	3.27%	20
Sample ID	LCS-15317	Batch ID: 15317	Test Code: TPHDNW	Units: µg/L	Analysis Date 3/9/06 11:50:00 AM	Prep Date				
Client ID:	Run ID:	ORGCT_060309A		SeqNo:	578614					
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
TPHC Diesel (C12-C22)	339.4	50	500	0	67.9%	72	124	0	S	
TPHC Motor Oil	947.4	170	1,000	0	94.7%	71	139	0		
Sample ID	LCSD-15317	Batch ID: 15317	Test Code: TPHDNW	Units: µg/L	Analysis Date 3/9/06 3:18:30 AM	Prep Date 3/8/06				
Client ID:	Run ID:	ORGCT_060309A		SeqNo:	578615					
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
TPHC Diesel (C12-C22)	346.4	50	500	0	69.3%	72	124	339	2.04%	15
TPHC Motor Oil	961.4	170	1,000	0	96.1%	71	139	947	1.47%	15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank



NORTH COAST
LABORATORIES LTD.

55680 West End Road • Arcata • CA 95521-9202

Chain of Custody

0602490

707-822-4649 fax 707-822-6831

Attention: _____
Results & Invoice to: Ron Kendall
Address: PO BOX 838, Fortuna, CA 95540

Phone: (707) 725-5626
Copies of Report to: LACCO, Mike Kitahara

Sampler (Sign & Print): STD RES Ron D

LABORATORY NUMBER:				
TAT: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day <input checked="" type="checkbox"/> STD (2-3 Wk) <input type="checkbox"/> Other: _____				
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES				
REPORTING REQUIREMENTS: State Forms <input type="checkbox"/>				
Preliminary: <input checked="" type="checkbox"/> FAX <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____ Final Report: <input type="checkbox"/> FAX <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____				
CONTAINER CODES: 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cp; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other				
PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ OH; g—other				
SAMPLE CONDITION/SPECIAL INSTRUCTIONS GEOTRACKER _____ _____ _____ _____				
COLD URIN TEST _____ _____ _____ _____				
SAMPLE DISPOSAL <input checked="" type="checkbox"/> NCL Disposal of Non-Contaminated <input type="checkbox"/> Pickup <input type="checkbox"/> Return				
CHAIN OF CUSTODY SEALS Y/N/NA SHIPPED VIA: UPS <input type="checkbox"/> Air-Ex <input type="checkbox"/> Fed-Ex <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Hand				

***MATR**X: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT